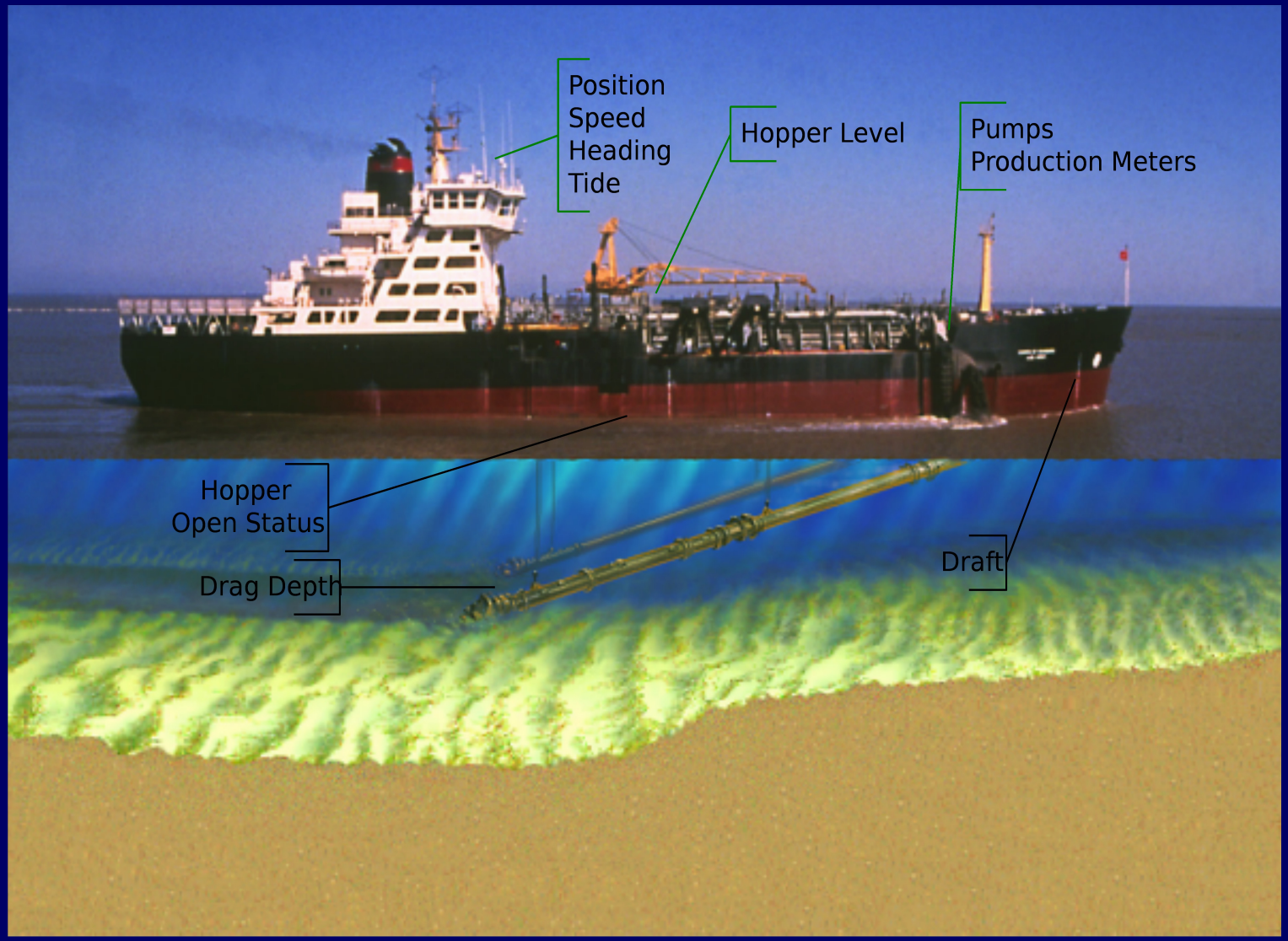
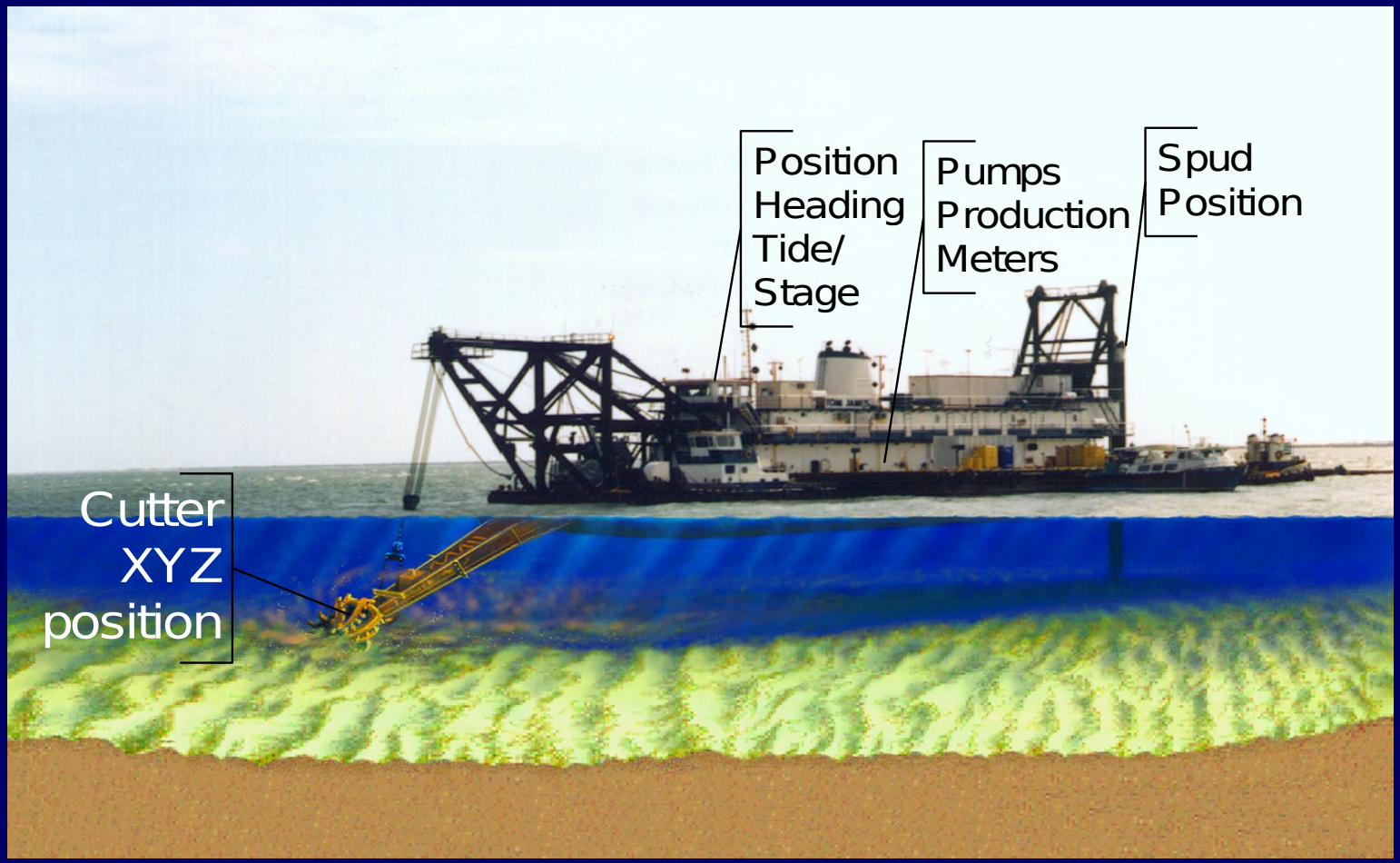
Silent Inspector National Implementation

- Implementation strategy
- Questions and Issues
- Guidance document

Hopper SI Measurements

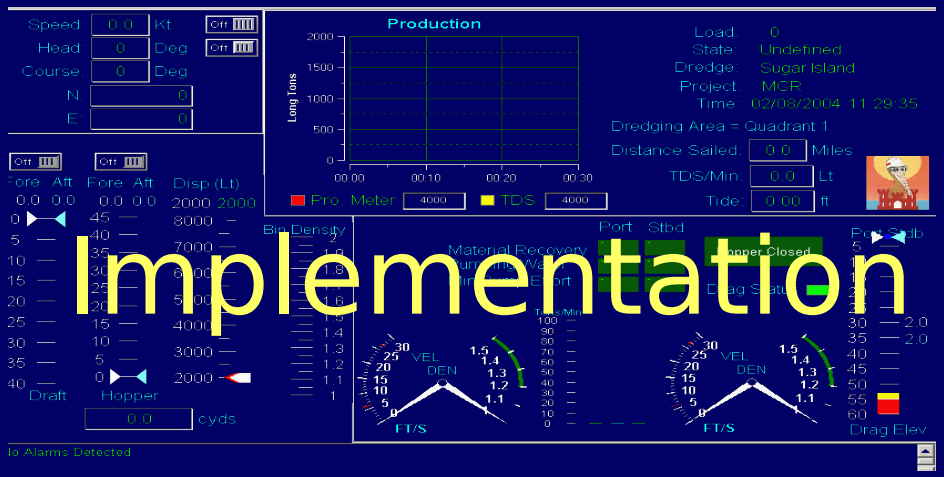


Pipeline Dredge Sensors



Scow Sensors

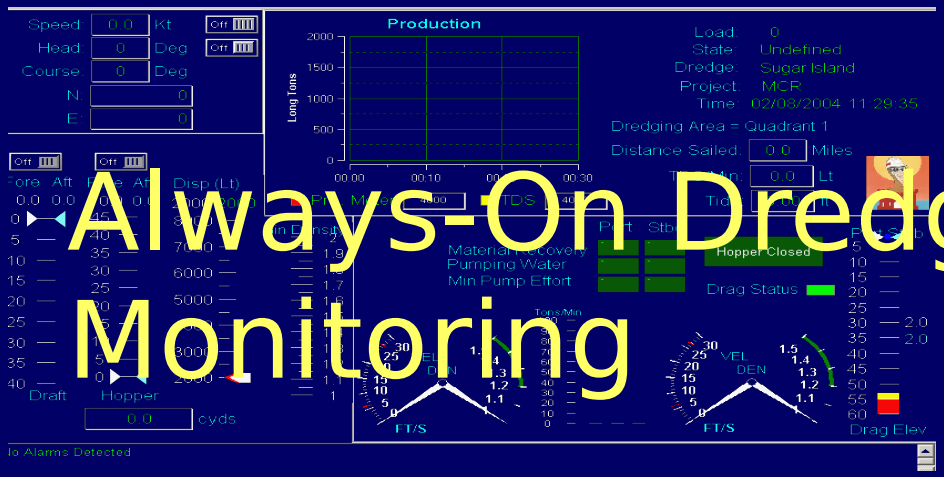
- **No GF software required**
- **Contractor implements entire system**
- **3 Profiles**
  - **Tracking – GPS & hull open/closed**
  - **Monitoring – Add draft**
  - **TDS – Adds Ullage**
- **Low cost compliant system based on truck location**



Implementation Principles

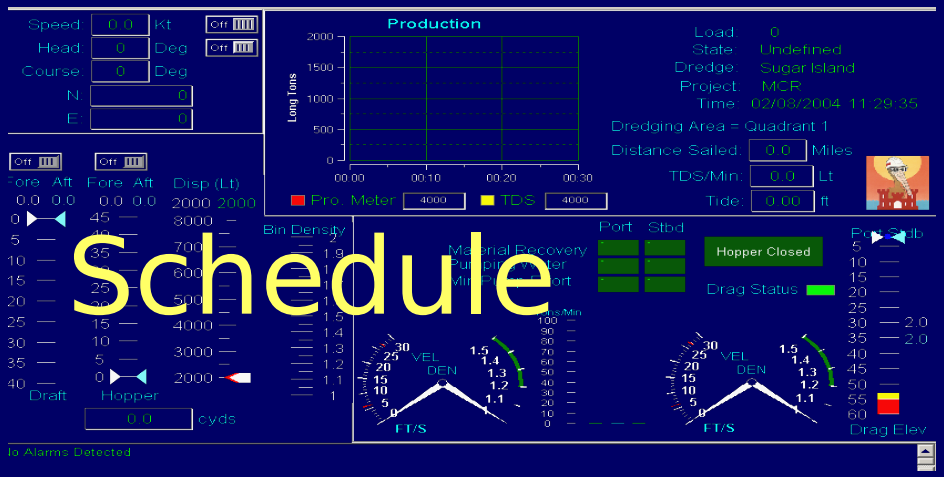
- Partnership with Dredging Industry
- Report the Contractor's Data
- Performance based specification
- Rigorous Data Quality Assurance

Always-On Dredge Monitoring

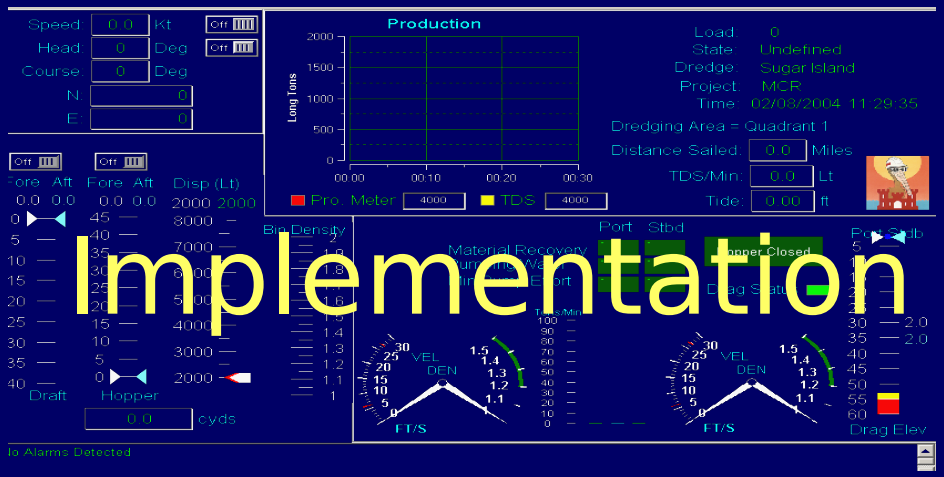


- All Hoppers
  - Include all Government Hoppers
- All Scows
  - Minimum of Tracking Profile
  - Monitoring or TDS Profile specified by ODMP
- Pipelines > 30”, + *Goetz* & *Oregon*
- Mechanical dredges TBD

Schedule

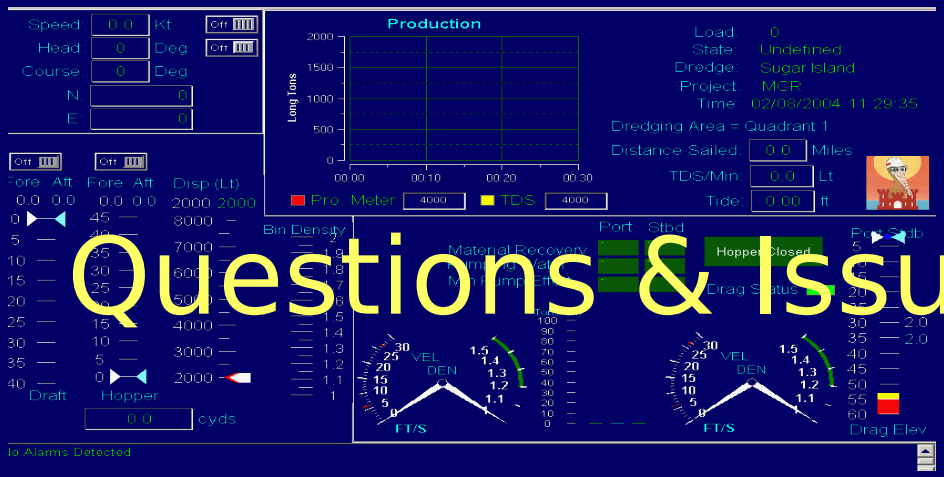


FY	2006	2007	2008	2009
Hopper	Always-on	Always-on	Always-on	Always-on
Scow	Always-on	Always-on	Always-on	Always-on
Pipeline	Goetz, Oregon	4 – > 30in	All > 30”	All > 18”
Mechanical	TBD	TBD	TBD	TBD



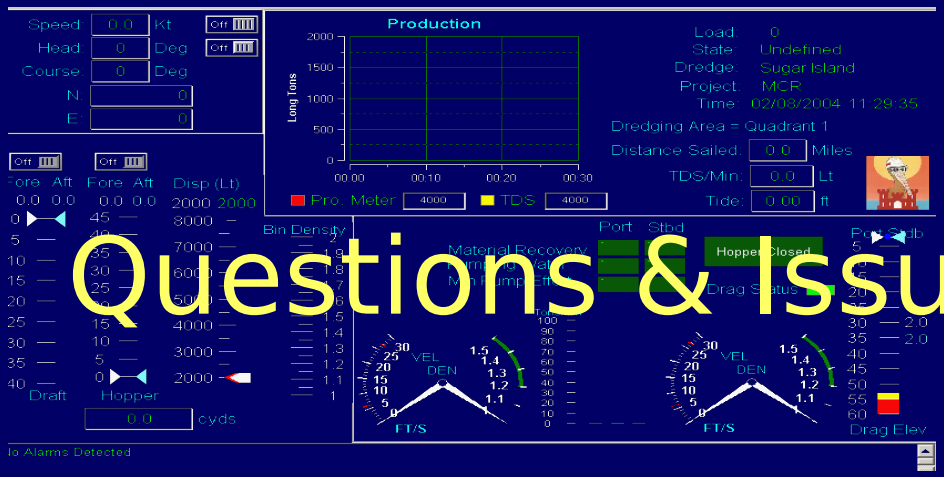
Implementation Strategy

- Immediate
  - Guidance document
- Near-Term
  - ER, EP ammendments
  - Board of Directors
- Medium-Term
  - Improved dredging efficiency
  - Regulatory relief



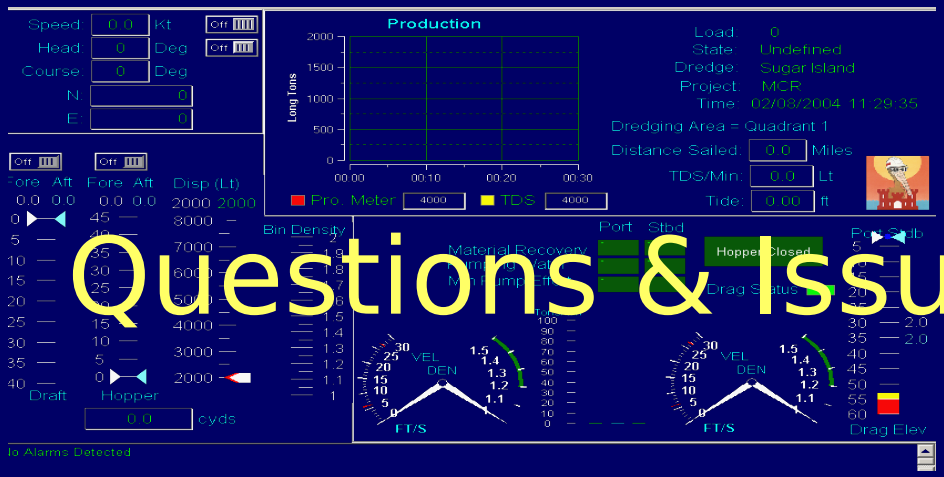
Questions & Issues a-d

- Impact on existing EPA mandated scow monitoring & methods?
  - No immediate changes are required
  - Add SI reporting spec
- Will agencies trust the data?
  - Contractor/SubContractor is still the data provider
  - SI adds Corps QC and data access



Questions & Issues .b

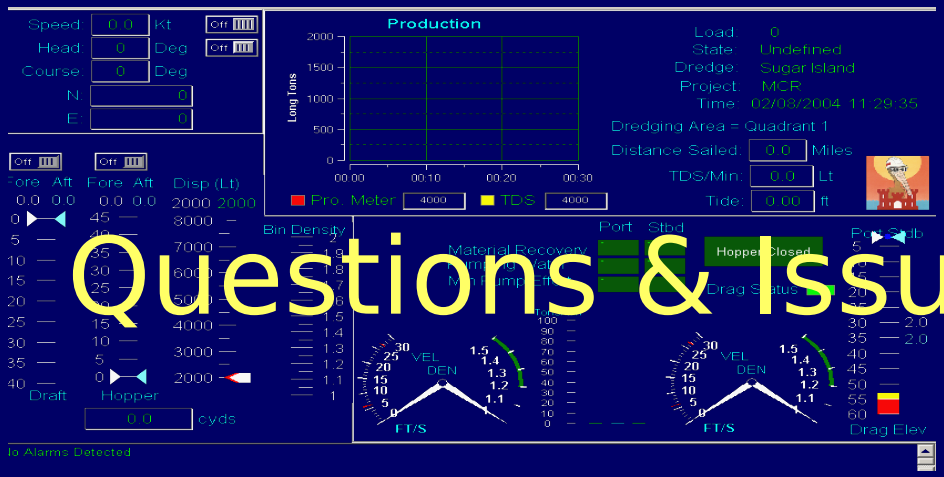
- What about track plot reporting to EPA?
  - Initially maintain current process
  - GIS based national standard will be tested in SAD
- What about scows that unload in CDFs?
  - Require SI tracking profile to assure always-on.
  - Require contractor to manually signal new load
- Are there GE and GFE requirements on districts?
  - No.



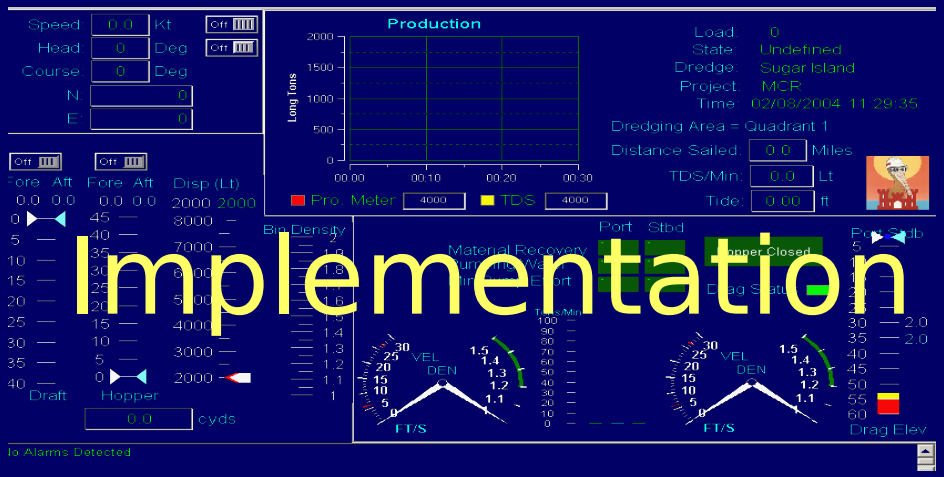
Questions & Issues .c

- What about other EPA/Fisheries special conditions?
  - Maintain requirements in contract specifications.
  - Future effort to standardize and reduce manual reporting requirements.
- What about SI impact on small 8a mechanical and pipeline plant?
  - BoD will set lower size limits.
  - Continue non-adversarial consultation with industry.
  - Use market forces and Moore’s law to reduce costs.
- Is it “legal” to require monitoring on permit jobs?
  - Yes.

Questions & Issues .d

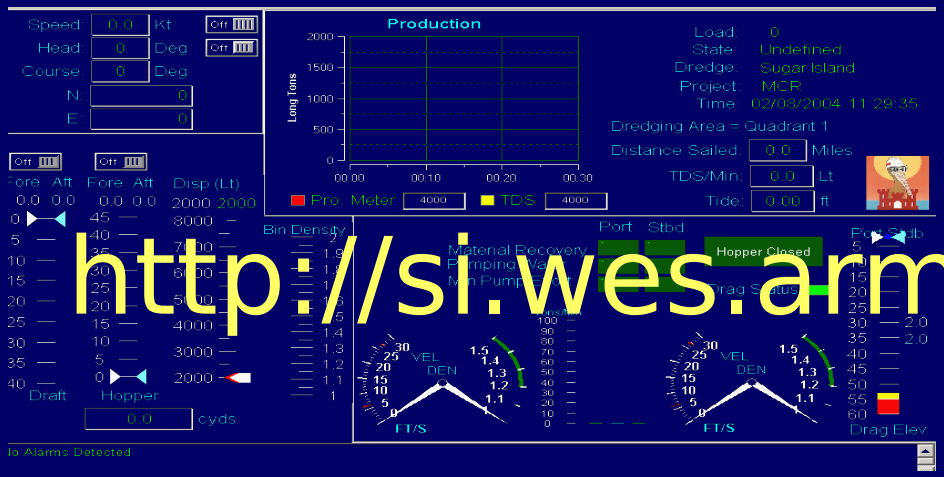


- How do variations in sediment properties affect production estimates?
  - Most repeatable measurement is mass.
  - Traditional measures are volumes.
  - Vol (in-situ) /= Vol (hopper) /= Vol (Disposal)
  - Site/Reach specific conversions are supported by SI
- What steps will be taken to protect data storage from storm damage or other loss.
  - Secondary site, redundancy.
  - Audited backup procedures.



Implementation Guidance

- Vs. 1.3 June 2006 available for comment
- Division/ district POCs
- Desktop software installation
- Training
- Regulatory language
- GIS integration
- Resource Management



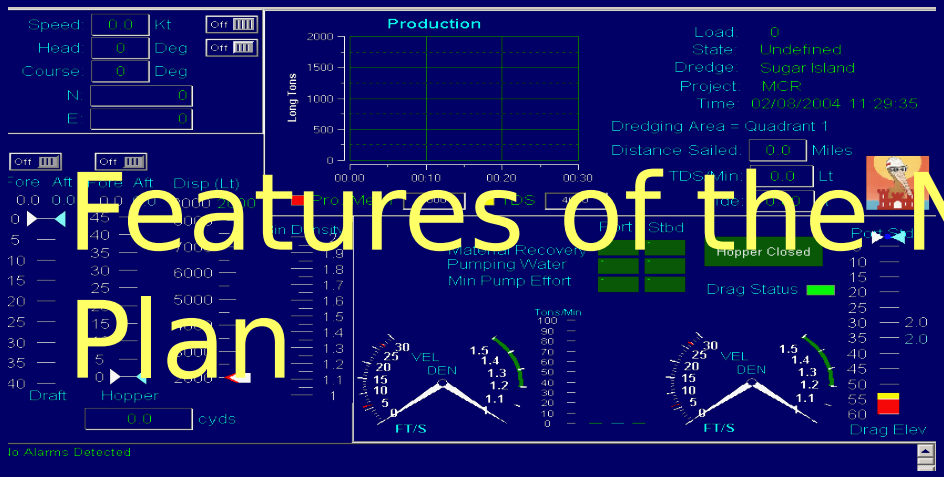
http://si.wes.army.mil/

- Gary Howell – 601-634-2006
- James (Jay) Rosati – 601-634-2022
- Tim Welp – 601-634-2083
- Rhonda Lenoir – 601-634-2923

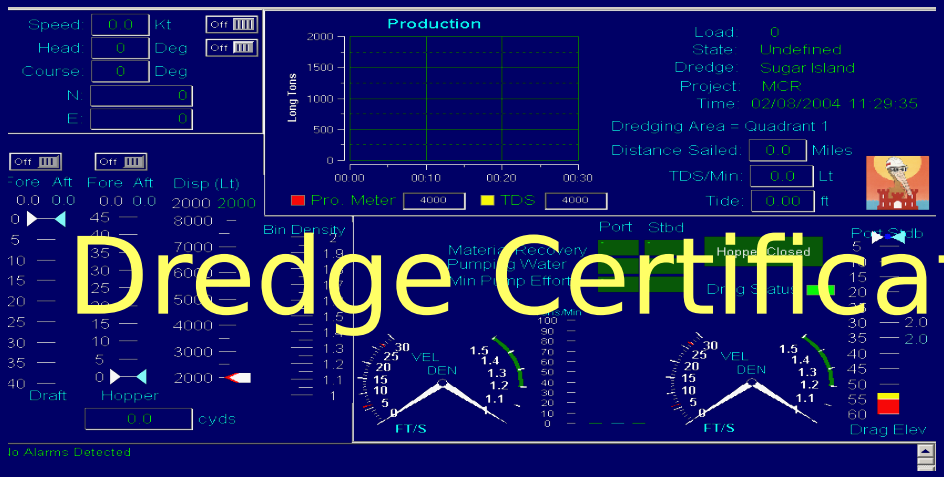
Business Plan -

Function	Oversight & Funding
Routine Operations, Support & Training	HQOP (funding) SAMOP
R&D for continuous improvement	ERDC - DOER
Virtual Team of Teams	Board of Directors

Features of the National Plan

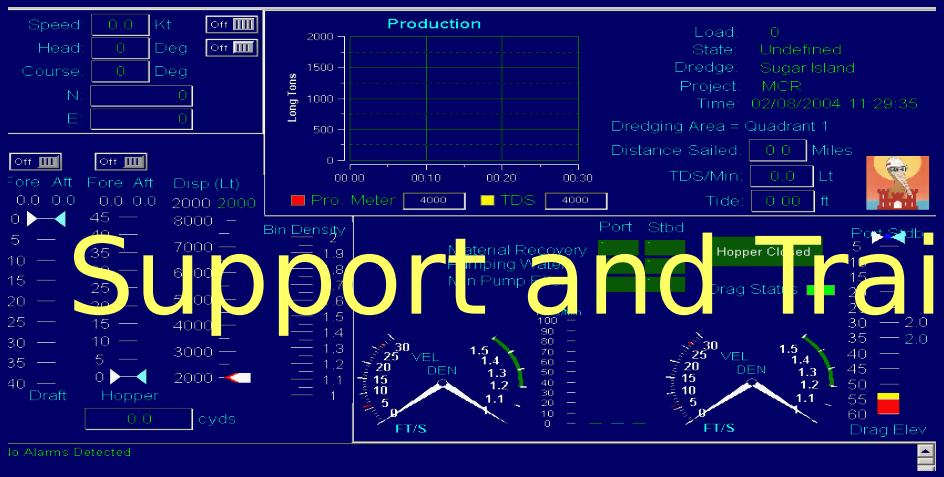


- Expanded Project Monitoring
- Include Regulatory
- Expanded Dredge types
- Simplify Dredge SI Certification
- Centralized Support under Operations
- Regional & National Stakeholders



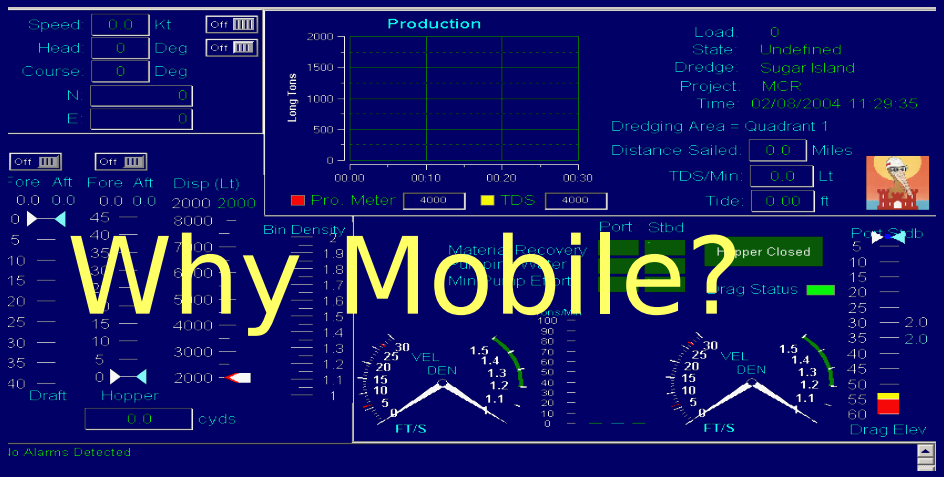
Dredge Certification

- Current Process
  - Certification Inspection by SI QA engineer
  - Letter from District CO
  - Not strictly transferable
  - No Continuing Control
- New Process
  - Inspection w/o contract
  - National Certification Letter
  - Web page with Certification list
  - Resourced by National team



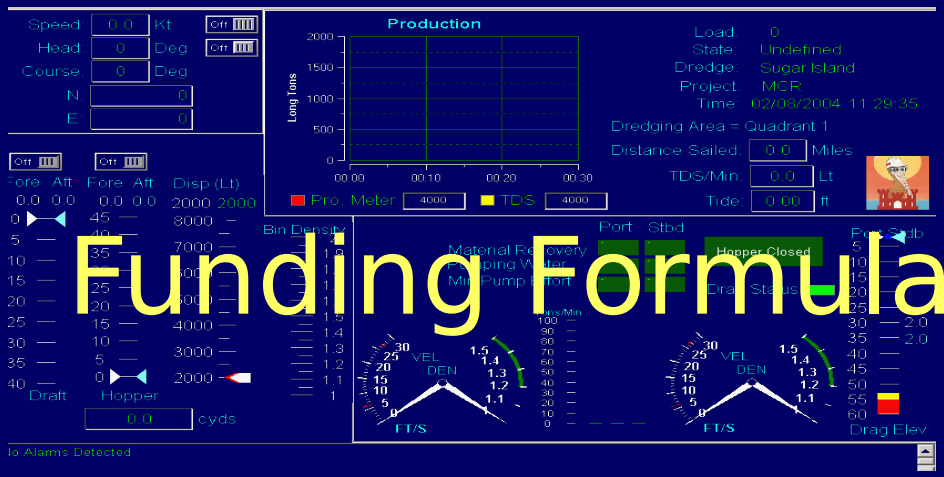
Support and Training

- Resourced by National Team
- Regional/Division training
- Integrate with QAR course
- Central Support team under Mobile District Operations
- Database Maintenance



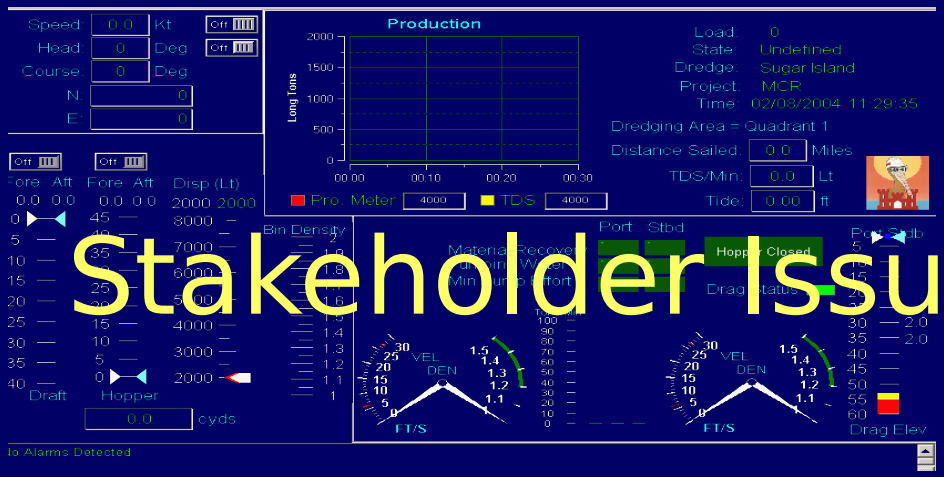
Why Mobile?

- 6 Years SI monitoring of contracts
- Experience with Ops, R&D, & IM teaming
- Required IT infrastructure in place



Funding Formula

- Resource for the National Team and National functions
- Formula = 0.875% of Dredging Contract
- Plan to resource with P2 template



Stakeholder Issues

- T&E – Turtles & Sturgeon
- Overdepth
- Open Water Disposal Monitoring
- Emergency Response Rentals
- Regionalization
- eGIS, eCoastal, RSM integration
- Decision Support – DODSS